REGISTRATION OF BRUNSWICK KENTUCKY BLUEGRASS

(Reg. No. 15)

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'Brunswick' Kentucky bluegrass (Poa pratensis L.) was developed cooperatively by Turf-Seed, Inc., and the New Jersey Agricultural Experiment Station. The first certified seed was harvested in 1973. NJE P-57 was the experimental designation of Brunswick.

Brunswick was selected from an old lawn on the Cook College Campus in New Brunswick, N. J. during the spring of 1963. Examination of the site of origin indicated that Brunswick most likely originated as a single plant which had persisted and spread to produce an attractive, aggressive patch of grass approximately 6 m in diameter. Nursery-grown spaced-plant seed progenies were very uniform with over 90% of the progeny plants being indistinguishable from their maternal parent indicating a high degree of apomictic reproduction.

Brunswick is a leafy, turf-type Kentucky bluegrass with a medium green color, medium texture, and a moderately slow rate of vertical growth. Brunswick has performed well in turf trials in New Jersey producing an exceptionally aggressive, attractive, uniform, relatively weed-free, persistent turf under both medium and high levels of turf maintenance. The medium green color of Brunswick is an advantage in situations where turf contaminants such as P. annua L. and P. trivialis L. are present.

Brunswick has demonstrated excellent resistance to the stripe smut disease caused by Ustilago striiformis (Wesend.) Niessl and moderately good resistance to the leaf spot and crown rot disease caused by Helminthosporium vagans Drechsler. It has moderate susceptibility to powdery mildew caused by Erysiphe graminis Pers. and the leaf rust caused by Puccinia poae-nemoralis Otth.

Brunswick appears to be well suited for lawns, parks, and sports turf in most regions where Kentucky bluegrass is well adapted. Moderately low seed yields may restrict its usage to highly specialized uses where higher seed costs are justified. Brunswick also appears to be useful as a female parent in hybridization programs. A number of aggressive hybrids capable of producing dense, high quality turf have been produced.

Seed propagation of Brunswick is limited to two generations of increase from breeder seed, one each of foundation and certified. Breeder seed is produced in spaced-plant nurseries under the direction of the New Jersey Agricultural Experiment Station Plant Patent 3,223 has been granted for Brunswick.

REGISTRATION OF KUIVATO AND Puhuima LEHMANN LOVEGRASSt

(Reg. Nos. 49 and 50)

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'Kuvato' and 'Puhuima' Lehmann lovegrass (Lehmannia niana Nees) were developed by FR-SEA-USA with the Arizona Agric. Exp. Stn. and SCS-USDA.

Kuvato (pronounced ku vato, Indian translation as – 'greeting the sun') was selected as an apomictic plant from PI 198581 and designated L-38. Evaluations were conducted through program-controlled environment in Arizona. Kuvato was superior for seedling drouth tolerance in artificial environments. It was superior for forage production among and within aridlands. Kuvato produced 25% more forage yield for forage density ratio was 64% greater than that of Lehmann lovegrass. Lehmann lovegrass is more efficient than any other known forage or crop species. Kuvato efficient Lehmann lovegrass for water useless water to produce an equal amount of Kuvato. Kuvato is an excellent seed producer with characteristics under natural environments. Kuvato has excellent tolerance under stress environments of the aridlands adapted to semiarid and arid grasslands for range sites at elevations generally below 25 to 30 cm annual rainfall. Characteristics include: general appearance resulted in the identification types from PI 237-182. Bulk open-polled these selected plants was used to establish the following relative performance in a turf situation plantings were high, so a 0.914 m² turf plot area of late 1966, and increased vegetatively. The propagules were used to establish an isolation increase. Seed from this block, designated as, distributed to interested associates for turf performance.

Checker is a mild-spreadling turf-type cultive with acceptable dark green color and fine leaf texture, which exhibits less seedling vigor than certain chewings cultivars, but it maintains good ground cover.

Breeder seed is maintained and produced with the Arizona Agric. Exp. Stn. and the Oregon foundation. A block consisting of two propagules each was selected at random from seed of the isolated production is on the generation system, and includes foundation, and certified classes.